

Data
on Demand
with

Unidisc



Low Cost Random Access Storage for UNIVAC 1004 and 1005 Computers

Unidisc provides:

Random Access

Unidisc adds data processing flexibility to 1004 and 1005 Systems. Many applications which require non-sequential searches through masses of data are now practical for the punched card user. For these, Unidisc offers random access data processing—high speed random access to large files of information stored on interchangeable discs.

Information stored in tracks on the Unidisc surface is accessed by movable read/write heads. Simplified programming methods direct a read/write head to the track in which the desired information is stored, locate the data, and transfer it to the UNIVAC 1004/1005 Central Processor. The 1004/1005 is not interlocked during Unidisc operations. Both units operate independently until the information is available, then work together to transfer information at microsecond speeds.

Take the case of a typical order processing application. With the entry of the data from the source document, a UNIVAC 1004/1005 System equipped with Unidisc can produce a final invoice, and update files affected by the transaction, including inventory and accounts receivable. In addition to providing back-order information, data for producing purchase orders, product history files, and sales analysis can be created for subsequent print-out.

Many organizations, regardless of size, can benefit with random access data processing. A UNIVAC 1004 or 1005 equipped with Unidisc offers faster, more efficient operation in such applications as:

- Billing • Inventory & Procurement
- Accounts Receivable • Inventory Control
- Sales Analysis • Production Control
- Order Entry • General Accounting

Simplified Programming

Fastband and Data Search unlock Unidisc's inherent high-speed random access capabilities. A single computer instruction, the Data Search command, locates and reads the record. A unique indexing principle, Fastband, is the key to combining simplified programming with high-speed operation, while conserving computing power. Data is checked automatically after reading or writing.

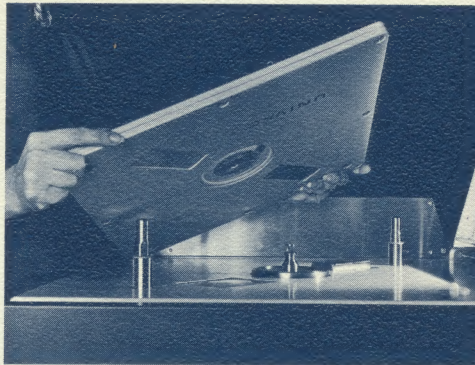
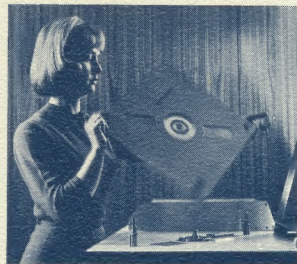
Fastband has a series of identifiers which breaks down the information stored on the disc and positions the read/write heads over the desired record without going serially through all the data on the disc. This Fastband technique simplifies file layout, and eliminates extensive systems design and elaborate programming schemes for random access addresses.

Economy

Unidisc is extremely economical. A UNIVAC 1004 or 1005 equipped with Unidisc pays off in random-access handling of both routine and specialized data processing applications. All necessary information to completely process each transaction is available to the 1004/1005 Central Processor. Since up-to-date information is in Unidisc's files, many clerical and preparatory machine operations, such as preliminary sorting, are eliminated. For example, credit checks and pricing runs could be avoided in an order entry application, as could wage rating in a payroll application.

Expandable Capacity

Storage capacity becomes virtually unlimited with Unidisc, since it is a simple matter to add more discs as your volume of data expands. In addition, up to five slave handlers can be added to the master Unidisc handler, if more information must be on line. A Unidisc library provides an inexpensive, permanent record of your company's operations, either historical or



current. And, it is possible to expand the program memory of UNIVAC 1005 Central Processors by storing additional instructions in Unidisc.

Ease of Operation

Lightweight Unidiscs are easy to mount, handle and store—designed with the user in mind. Changing a disc is no harder than changing a phonograph record or a reel of magnetic tape. Your operating personnel can be trained to mount cartridges and operate handlers in a matter of minutes.

Unidisc cartridges measure $15\frac{3}{4}$ inches square and $\frac{5}{8}$ -inch thick. They can be labeled and stored on edge, as easily as phonograph albums.

Fast Access

The average time required to locate and read a record on a random basis is approximately 135 milliseconds, most of which is required for head movement. Since the read/write

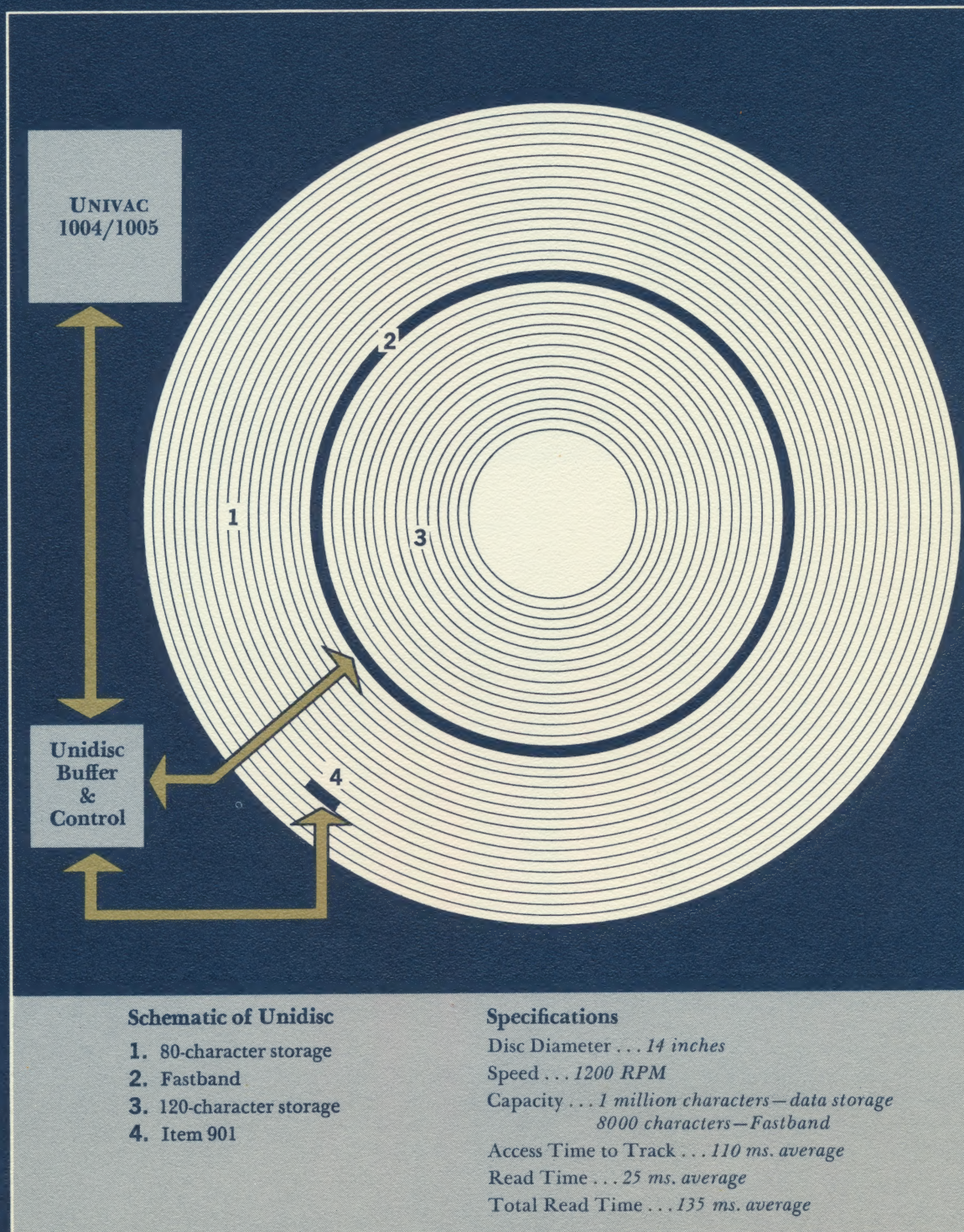
heads are already positioned over the track, the updated record can be written on Unidisc and checked in an average of 75 milliseconds.

Data Reliability

A combination of parity, bit count, and phase error checking assures that correct data is recorded. As entries are made, check characters are developed and stored with the data. Write operations are automatically followed by read-backs of the data recorded. All read operations include automatic verification of the data read by check character validation.

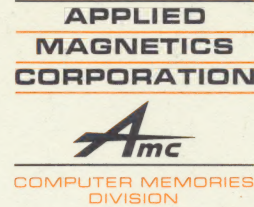


discription





UNIVAC DIVISION OF SPERRY RAND CORPORATION



TO: Mr. T. Nelson,

Thank you for your inquiry. The name of our company was changed the first of the year from Computer Accessories Corporation to Applied Magnetics Corporation/Computer Memories Division.

The literature you requested on our MDM-12 Magnetic Disc Memory is enclosed. This new random access storage device, featuring reliable head-per-track design, is available with capacities up to 16,896,000 bits. In addition to the standard models listed on the data sheet, modularity permits special versions, tailored to the user's requirements, to be economically produced.

Already in use by two major computer manufacturers, the MDM-12 is compiling an enviable record for high-reliability in service, reflecting the test results achieved in our laboratory during development.

The MDM-12 can be supplied with track selection diodes or with complete buffered or unbuffered read/write electronics. Please let us know if you would like further information.

Very truly yours,

A handwritten signature in dark ink, appearing to read 'R. E. Norris', is written over the typed name.

R. E. Norris
Marketing Manager

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Enclosure